

# Perez Capstone MLB

Intro	Cost Per Win History	Roster Demographics	Which Stats are Most Important?	Which Stats Should you focus on?	Offensive Stats	Conclusion
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## Recommendations for Mid Market MLB Teams 2016 Season..

What is success for a Mid Market MLB Team?

- The World Series
- Division Winner/Playoff bound
- An above 500. Team

Constraints for Mid Market Teams

- Cost
- Roster (existing/future)

Which Metrics are Most Important?

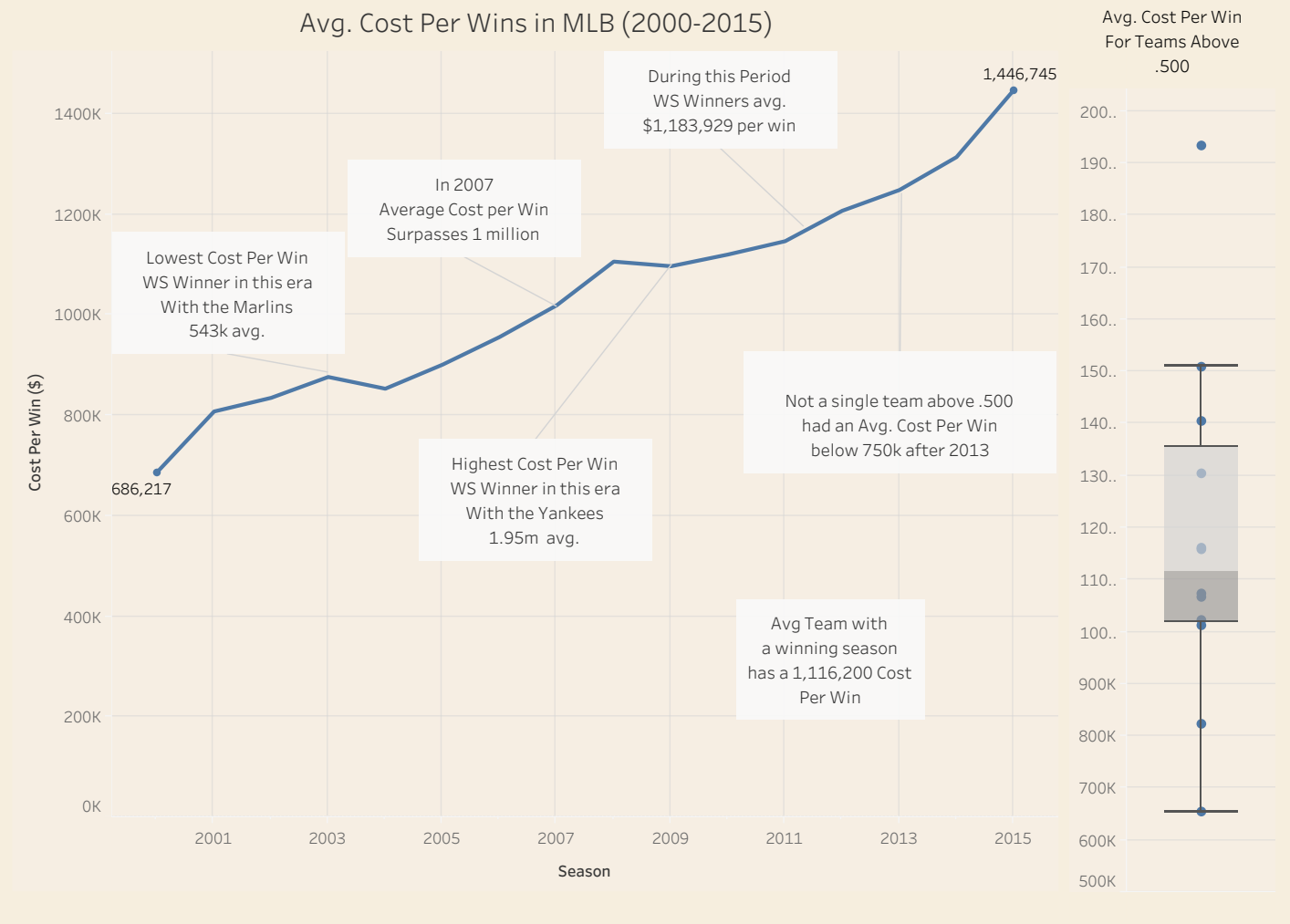
- Hitting
- Pitching
- Fielding



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- Cost Per Win have been rising steadily
- Avg cost per win more than doubled between 2000 and 2015



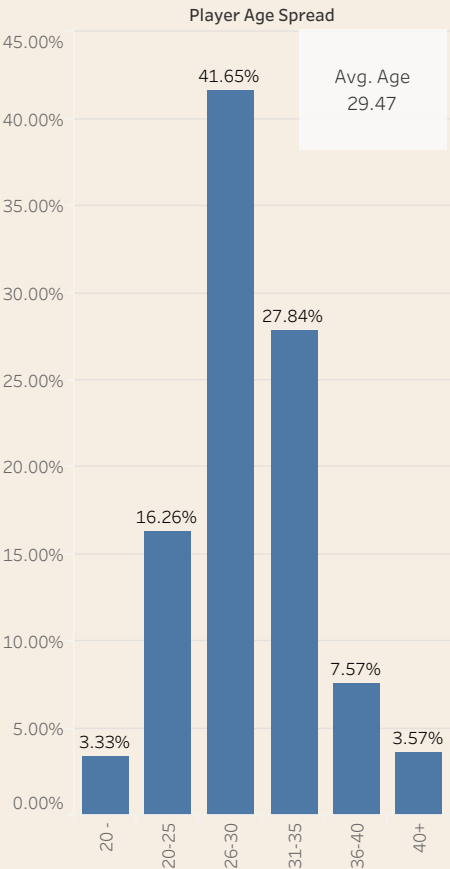
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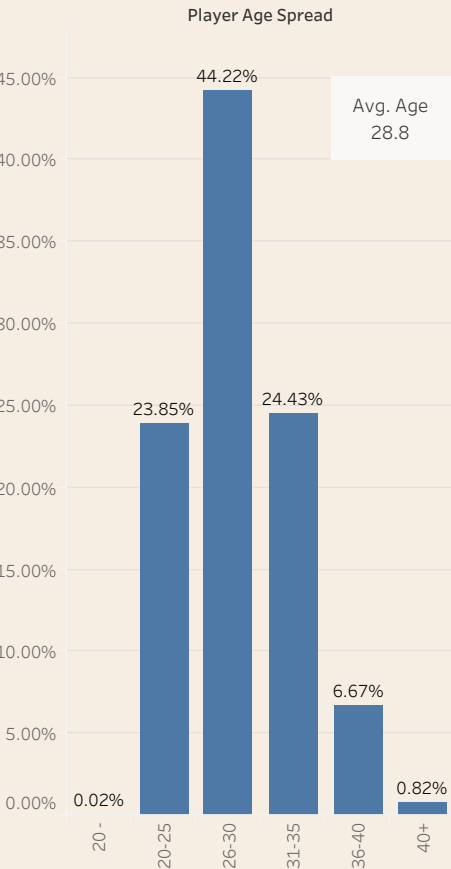
-Teams can be cost effective and competitive with their rosters with averaging young players

## Player Age Spreads

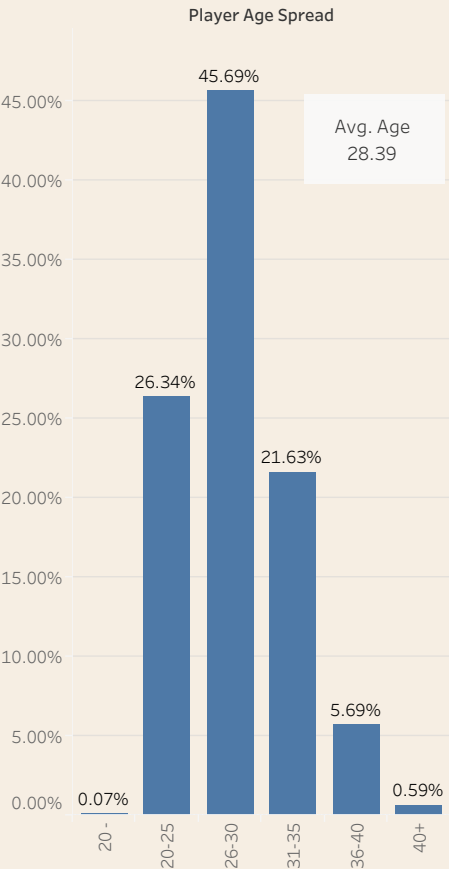
Avg. World Series Winners  
Player Age Spread



Avg. Non WS Winner  
Player Age Spread



Avg. Player Age Spread for Teams  
Above .500 and Under 750k Cost Per Win



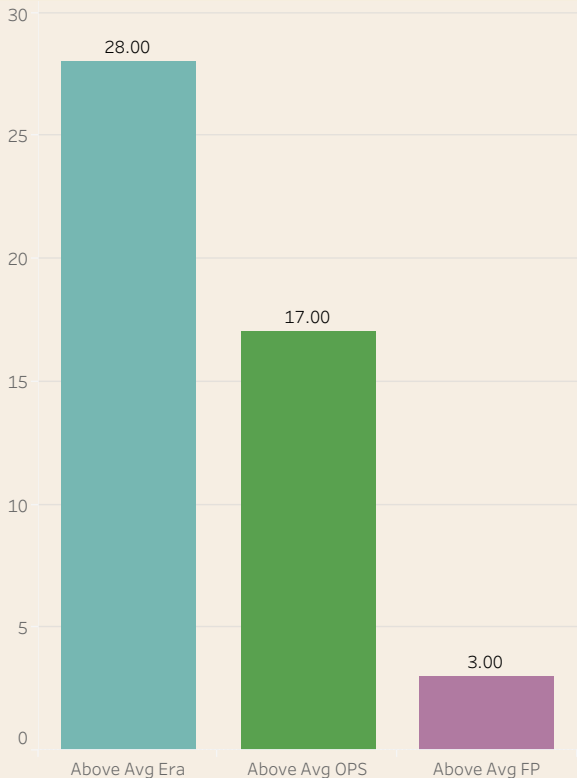
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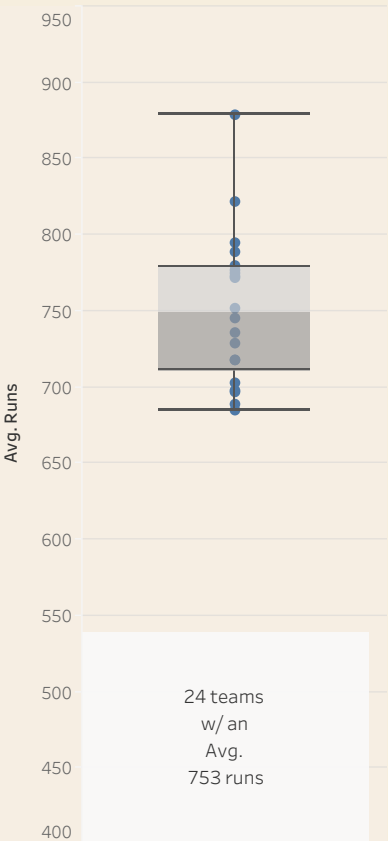
- What stats are the most important to winning, in order to prioritize;
  - Spending
  - Coaching Style
  - Roster
- ERA is the most important stat to help a team become winning

OPS: On Base Percentage Plus Slugging; stat showing how effective a player's offense is  
ERA: Earned Run Average; a pitching stat to see how good a pitcher is at limiting runs  
FP: Fielding Percentage; a stat showing how effective a team's defense is  
OBP: On base Percentage; how often a player gets on base offensively  
SLG: Slugging; weighted ratio of extra base hits an offensive player has

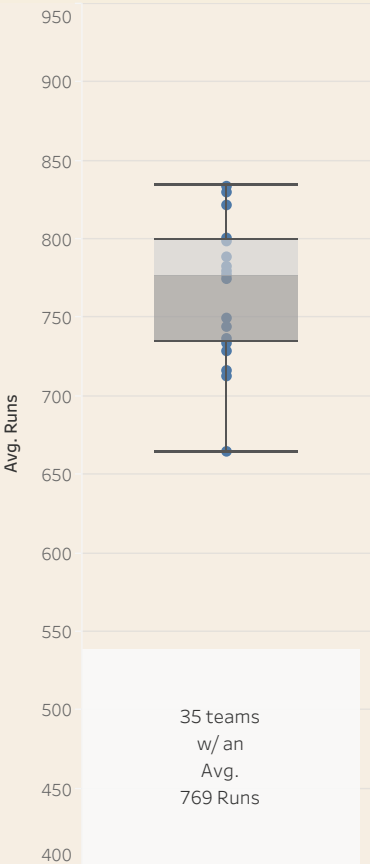
Number of teams above .500  
While being above avg. in  
1 metric and below avg. in  
the other 2 metrics.  
( ERA, OPS, Fielding%)



Avg. Runs for above  
Avg. Offenses  
With Above Avg. OBP  
And below Avg. SLG



Avg. Runs for above Avg. Offenses  
With Above Avg. SLG  
And below Avg. OBP



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-Other important stats that help a team be competitive  
- Saves (SV)  
- Walks (BB)..

-- Most important stats for Winning Teams are ERA and Runs

## Avg Stats by Wins

	Wins					
	Under .500	81-85	86-90	91-95	96-100	100+
Avg. BB	499.3	519.4	531.1	564.7	552.0	610.0
Avg. SLG	0.404	0.417	0.420	0.430	0.426	0.445
Avg. SV	36.8	42.0	43.4	45.3	47.4	52.0

## Most Notable Stats Growth

Saves between Winning Ranges

Under .500	81-85	86-90	91-95	96-100	100+
	14.07%	3.30%	4.44%	4.64%	9.67%

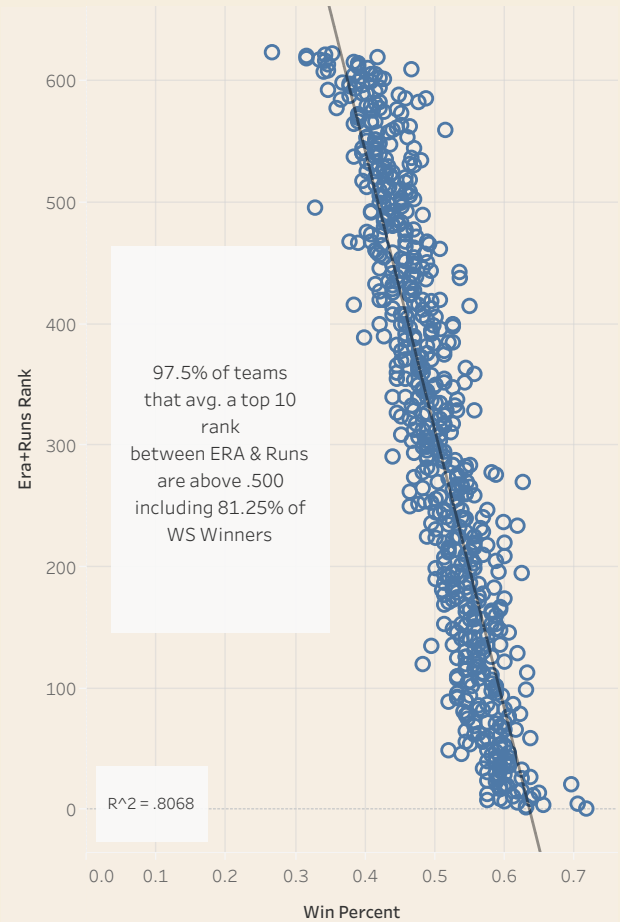
BB between Winning Ranges

Under .500	81-85	86-90	91-95	96-100	100+
	4.03%	2.25%	6.32%	-2.25%	10.51%

SLG between Winning Ranges

Under .500	81-85	86-90	91-95	96-100	100+
	3.447%	0.713%	2.326%	-1.011%	4.556%

## Avg ERA & R Rank to Win %



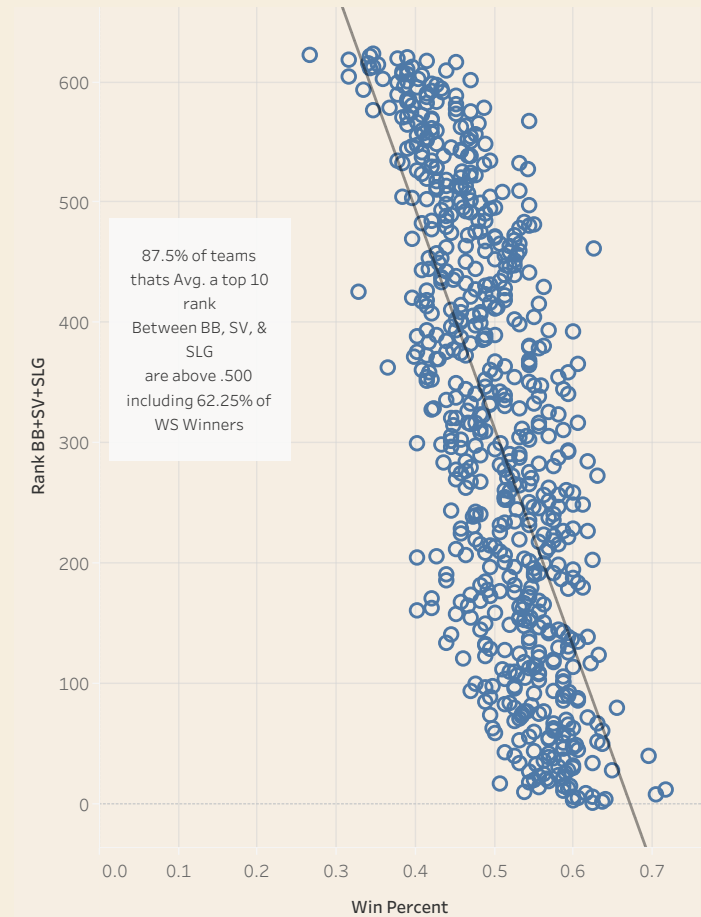
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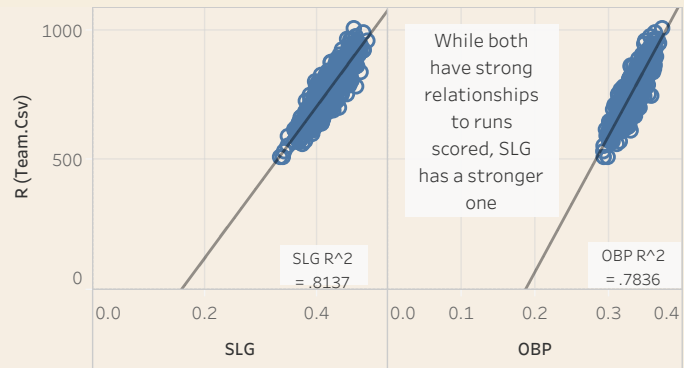
- BB, SV, SLG stats effective goals in getting teams to become over .500

- Deeper look at offensive stats
- SLG is most important to scoring runs
- Walks is most important aspect of OBP, which also has strong relationship to scoring runs

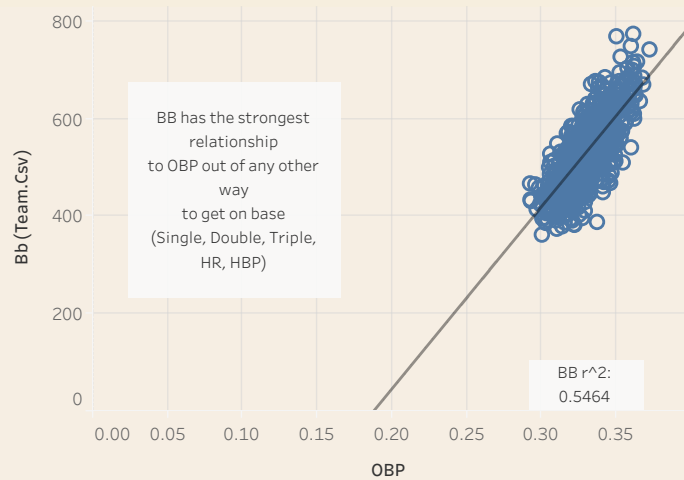
BB & SV & SLG Rank to Win %



SLG & OBP to Runs



BB to OBP



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## Conclusion

For teams looking to be competitive and cost efficient, the right stats can lead the way

- Young players should be prioritized
  - Be cautious of signing free agents over 30
  - Be aggressive in trading non-contracted players 29+ for prospects
  - Develop talent within farm system
- Pitching and ERA are the most important stat
  - First goal, prioritize developing pitching
  - Second goal, develop players who can slug
- While ERA/Runs are the goal, SVs, BBs, and SLG can also be effective and cheaper stats to strive for

